

# SUPPLEMENTARY PARTIAL EUROPEAN SEARCH REPORT

**Application Number** 

which under Rule 63 of the European Patent Convention EP 03 79 9822 shall be considered, for the purposes of subsequent proceedings, as the European search report

	DOCUMENTS CONSID	]		
Category	Citation of document with in of relevant passa	idication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 6 426 074 B1 (MI 30 July 2002 (2002-* the whole documen	CHEL J.L. ET AL.) 07-30)	1-17	INV. A61K6/00  TECHNICAL FIELDS SEARCHED (IPC)  A61K
INCO	MPLETE SEARCH	een based on the last set of claims val		
not compl		application, or some or all of its claims, does a meaningful search into the state of the art o y, for the following claims:		
Claims se	earched completely :			
Claims se	earched incompletely :			
Claims no	ot searched :			
Reason fo	or the limitation of the search:			
see	sheet C			
	Place of search	Date of completion of the search		Examiner
	The Hague	21 January 2008		reau, Jean-Marie
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anoth ument of the same category inological background written disclosure	L : document cited	ocument, but publi ate in the application	shed on, or

document

P: intermediate document

#### INCOMPLETE SEARCH SHEET C

EP 03 79 9822

human/animal	body (Artic	le 53(c) EF	PC), the sea	treatment of arch has been und/compositio	carried o	out

#### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 03 79 9822

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-01-2008

Patent docum cited in search r		Publication date		Patent family member(s)		Publication date
US 6426074	B1	30-07-2002	US	2003035805	A1	20-02-200

## PATENT COOPERATION TREATY

## **PCT**

REC'D 1 4 MAR 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORTS

PCT

### (PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		n of Transmittal of International			
PP19766.002	Preliminary Examination Report (Form PC1/IP)					
International application No.	International filing date (day/mon	th/year) .	Priority date (day/month/year)			
PCT/US03/29167	15 September 2003 (15.09.2003)		15 September 2002 (15.09.2002)			
International Patent Classification (IPC)	or national classification and IPC					
IPC(7): A61K 39/385, 39/02, 39/09, 39/09	0 and US Cl.: 424/197.11, 234.1, 24	44.1, 184.1, 236.1	, 831			
Applicant						
CHIRON CORPORATION						
Examining Authority and i	Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a	a total ofsheets, including the	his cover sheet.				
which have been amen before this Authority (s	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of sheets.					
<ol><li>This report contains indicat</li></ol>	tions relating to the following ite	ems:				
I Basis of the report						
II Priority						
III Non-establishme	ent of report with regard to nove	lty, inventive ste	en and industrial applicability			
IV Lack of unity of			The second secon			
applicability; cita	ent under Article 35(2) with regations and explanations supporti	ng such stateme	nt			
VI Certain documen						
VII Certain defects in	n the international application					
VIII Certain observations on the international application						
Date of submission of the demand	Date of	of completion of	this report			
129pril 2004 (12,04,2004	05,	march 20	25 (05.03,2005)			
Name and mailing address of the IPEA/US		ized officer	7000			
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450	Street	alerie	1 sell-Harris An			
Alexandria, Virginia 22313-1450	T-11-	one No. (E:7)	0272-1600			
Facsimile No. (703)305-3230 Form PCT/IPEA/409 (cover sheet)(July 1993)		OHE INO. (SODI)	1212 1600			

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US03/29167	•

The statement that the information recorded in computer readable form is identical to the written sequence has been furnished.  4. The amendments have resulted in the cancellation of:  the description, pages NONE  the claims, Nos. NONE  the drawings, sheets/fig NONE	I.	Basi	is of the report	
the description: pages 1-31 as originally filed pages NONE filed with the demand pages NONE filed with the demand pages NONE filed with the letter of the claims: pages 32-34 as originally filed pages NONE filed with the demand pages NONE filed with the tetter of the drawings pages NONE filed with the letter of the drawings pages NONE filed with the letter of the sequence listing part of the description: pages NONE filed with the letter of the sequence listing part of the description: pages NONE filed with the demand application was filed, unless otherwise indicated under this item These elements were available or furnished for the purposes of international search (under Rule23.1(b)).  the language of a translation furnished for the purposes of international preliminary examination was carried out on the basis of the sequence listing  contained in the international application in printed form.  filed together with the international application in printed form.  furnished subsequently to this Authority in computer readable form.  furnished subsequently to this Authority in computer readable form.  The statement that the information recorded in computer readable form is identical to the written sequence has been furnished.  The attement have been stablished as if (some of) the amendments had not been m	1.	With	regard to the elements of the international application:*	
pages NONE		$\boxtimes$	the international application as originally filed.	
pages NONE		$\boxtimes$		
pages NONE				
the claims: pages 32-34 pages NONE pages Non				
pages 32-34		X		
pages NONE		K—SI		
pages NONE				
the drawings: pages NONE				
pages NONE, filed with the demand pages NONE, filed with the demand pages NONE, filed with the letter of				
pages NONE		لــــا		
the sequence listing part of the description: pages NONE			pages NONE , filed with the demand	
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pages NONE				
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language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language which is:  the language of a translation furnished for the purposes of international search (under Rule23.1(b)).  the language of publication of the international application (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rule 48.3(b)).  the language of the translation furnished for the purposes of international preliminary examination (under Rule 48.3(b)).  3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:  contained in the international application in printed form.  filed together with the international application in computer readable form.  furnished subsequently to this Authority in computer readable form.  The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in international application as filed has been furnished.  The statement that the information recorded in computer readable form is identical to the written sequence has been furnished.  The amendments have resulted in the cancellation of:  the description, pages NONE  the claims, Nos. NONE  the drawings, sheets/fig NONE  This report has been established as if (some of) the amendments had not been made, since they have been considered to beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**  * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred this report as "originally filed" and are not gonzele to his sevent was the shown to be a new to a supplemental form.				
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US03/29167

Novelty (N)		
	Claims NONE	YES
	Claims 1-17	NO
Inventive Step (IS)	Claims NONE	YES
	Claims 1-17	NO
Industrial Applicability (IA)	Claims 1-17	YES
	Claims NONE	NO
proteins or polypeptides, including GBS80 and GE antigen. A method of making the compositions or aught. The saccharide antigen is linked to a carrie CHIRON S.P.A. does not expressly teach the strep However, Michon et al. taught the use of protein, such as, CRM197 or tetanus toxoid, in controlled.	compositions or vaccines comprising two or a S691 proteins or polypeptides, or fragments the vaccines and a method of treating an animal use protein, such as, tetanus toxoid, diphtheria to occoccal saccharide antigen in the vaccine to be GBS type II or III saccharide antigen covalent ugate vaccines and multivalent vaccines. because it would have been obvious to one of charide antigen conjugate in CHIRON S.P.A' troduce the instant invention with a reasonable ugates are usable in multivalent vaccines, one expected benefit of producing a multivalent vaccine peptide-specific immunity against multiple GIP	more of GBS1 through GBS689 hereof, and a streptococcal saccharide sing the compositions or vaccines are exoid, or CRM197. The of GBS serotype Ia, Ib, or III. Itly coupled to a bacterial carrier  Tordinary skill in the art at the time the simmunogenic composition or vaccine expectation of success. Given the of skill in the art would have been exofine, which would advantageously

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29167

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : A61K 39/385, 39/02, 39/09, 39/00 US CL : 424/197.11, 234.1, 244.1, 184.1, 236.1, 83	IPC(7) : A61K 39/385, 39/02, 39/09, 39/00				
According to International Patent Classification (IPC) or to both					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/197.11, 234.1, 244.1, 184.1, 236.1, 831					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (representation of the Please See Continuation Sheet	name of data base and, where practicable, s	earch terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category * Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.			
Y WO 02/34771 A2 (CHIRON S.P.A.) 02 May 200	02 (02.05.2002), pages 7, 841 and 842.	1-17			
Y US 6,372,222 B1 (MICHON et al) 16 April 2002	2 (16.04.2002), claims and Examples.	1-17			
Y US 6,426,074 B1 (MICHEL et al.) 30 July 2002	(30.06.2002), Example 14.	1-17			
Further documents are listed in the continuation of Box C	See patent family annex.				
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the in priority date and not in conflict with understand the principle or theory understand the principle or the p	the application but cited to derlying the invention e claimed invention cannot be			
"E" earlier application or patent published on or after the international filing date	considered novel or cannot be consid				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reaso (as specified)		tep when the document is ch documents, such			
"O" document referring to an oral disclosure, use, exhibition or other means  "&" document member of the same patent family  "P" document published prior to the international filing date but later than the					
Date of the actual completion of the international search  Date of mailing of the international search  Date of mailing of the international search					
15 April 2004 (15.04.2004)					
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents P.O. Box 1450	S. Devi, Ph.D.	in-phis			
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Telephone No. (703) 308-0196				

Form PCT/ISA/210 (second sheet) (July 1998)

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29167

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This	internat	ional report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1.		Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2.		Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3.	6.4(a).	Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule	
Box	n Ob	servations where unity of invention is lacking (Continuation of Item 2 of first sheet)	
		tional Searching Authority found multiple inventions in this international application, as follows: Continuation Sheet	
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4.	nark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  Protest	

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LAC This application contains claims directed to more than one species of the generic invention because they are not so linked as to form a single general inventive cond	nvention. These species are deemed to lack unity of
In order for more than one species to be examined, the appropriate additional example follows:  GBS saccharide antigen species: serotype Ia; serotype Ib; and serotype III.	mination fees must be paid. The species are as
The claims are deemed to correspond to the species listed above in the following reClaims 1 and 17.	nanner:
The species listed above do not relate to a single general inventive concept under less species lack the same or corresponding special technical features for the following.  The saccharide antigen species listed above do not share significant structures.	reasons:
Continuation of B. FIELDS SEARCHED Item 3: DIALOG, WEST, EMBASE, BIOSIS, MEDLINE	
GBS or group B streptococc?, (Ia or Ib or III), GBS79, GBS80 to GBS 691, invent	or's name

INTERNATIONAL SEARCH REPORT

PCT/US03/29167

Form PCT/ISA/210 (second sheet) (July 1998)